

File 344:Chinese Patents Abs Aug 1985-2003/Feb
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)
(c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200331
(c) 2003 Thomson Derwent

CITICORP

?ds

Set	Items	Description
S1	38761	VISUAL?() (IMPAIRED? OR DISABILITY? OR DISABL?) OR BLIND? OR (LEGAL? OR FUNCTIONAL?) () BLIND?
S2	97143	FINANCIAL() SERVICE? OR HOME() BANK? OR ATM OR AUTOMATIC() TE- LLER() MACHINE? OR BANK? -? OR BANKING?
S3	27	(SCREEN() READ?) () (DEVICE? OR APPARATUS? OR SOFTWARE) OR SC- REEN() ACCESS() SOFTWARE? OR HOME() PAGE() READER? OR LYNX? OR TE- XT() (READABLE? OR READABILIT?)
S4	2198	(BRAILLE? OR SPEECH?) (3N) (CONVERSION? OR CONVERT?)
S5	151	S1 AND S2
S6	2	S5 AND (S3 OR S4)

6/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013898838 **Image available**
WPI Acc No: 2001-383051/200141
XRPX Acc No: N01-280992

Financial services method and a system for providing accessibility to
financial services , such as home banking , for visually
impaired persons uses a computing system such as a personal computer
(PC) with a screen reading device

Patent Assignee: CITICORP DEV CENT INC (CITI-N)
Inventor: DOSHI A; GRANDCOLAS M L; LAW P; PFNELL N
Number of Countries: 025 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1056065	A2	20001129	EP 2000201830	A	20000525	200141 B

Priority Applications (No Type Date): US 99155854 P 19990924; US 99136540 P
19990528

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1056065	A2	E	20	G09B-021/00	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): EP 1056065 A2

NOVELTY - System uses a computing system such as personal computer
(4)(PC) with a **screen reading device** coupled, for example, to a
home banking server. A template scheme assures the delivery of
information in a financial institution's **home banking** product can
be easily and efficiently read for a **visually impaired** person (2)
using **screen reading device** so simplifying the overall navigation
of the product.

DETAILED DESCRIPTION - An independent claim describes a system for
delivering **financial services** to a user.

USE - As a method and a system for providing accessibility to
financial services for **visually impaired** persons.

ADVANTAGE - Using a template scheme simplifies the overall
navigation of the **home banking** product so that it is easy for
visually impaired persons to navigate to different functionalities.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic diagram
of the overview of an example of key component and the flow of
information between them for providing access to **financial services**

the personal computer (4)
the **visually impaired** person. (2)
pp; 20 DwgNo 1/7

Title Terms: FINANCIAL; SERVICE; METHOD; SYSTEM; ACCESS; FINANCIAL; SERVICE
; HOME; **BANK** ; VISUAL; IMPAIR; PERSON; COMPUTATION; SYSTEM; PERSON;
COMPUTER; SCREEN; READ; DEVICE

Derwent Class: P85; S05; T01; T05
International Patent Class (Main): G09B-021/00
File Segment: EPI; EngPI

6/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013641462 **Image available**
WPI Acc No: 2001-125670/200114
XRPX Acc No: N01-092578

**System for assisting visually impaired to perform financial
transactions on automated teller machine using touch-screen and jack for**

providing audible information

Patent Assignee: CITICORP DEV CENT INC (CITI-N)

Inventor: COHEN A E; GRANDCOLAS M L; GRYTE S M; PETACH T A; SEARS M L

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1065638	A2	20010103	EP 2000202282	A	20000630	200114 B
US 6464135	B1	20021015	US 99141288	A	19990630	200271
			US 2000607919	A	20000630	

Priority Applications (No Type Date): US 99141288 P 19990630; US 2000607919 A 20000630

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1065638	A2	E	16	G07F-019/00	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

US 6464135	B1	G06K-017/60	Provisional application US 99141288
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Abstract (Basic): EP 1065638 A2

NOVELTY - A user can start a **visually impaired** person mode by pressing the top right hand corner of the touch-screen twice and a personal identification number is entered by tapping on the screen, while text on the screen is **converted** into **speech** to be heard through a headset. Large fonts and high contrast can be provided for people with partial sight and the number could be entered by tapping the appropriate number of times for each digit in one corner of the screen.

DETAILED DESCRIPTION - AN INDEPENDENT CLAIM is included for a method of assisting **visually impaired** individuals in performing financial transactions at automated teller machines (**ATM**).

USE - Providing multifunction **financial services** to **visually impaired** users through an **ATM** or customer access point.

ADVANTAGE - Improved account information user interface.

DESCRIPTION OF DRAWING(S) - The drawing shows a simple transaction screen illustrating the navigation procedure of the invention.

pp; 16 DwgNo 1/4

Title Terms: SYSTEM; ASSIST; VISUAL; IMPAIR; PERFORMANCE; FINANCIAL;
TRANSACTION; AUTOMATIC; TELLER; MACHINE; TOUCH; SCREEN; JACK; AUDIBLE;
INFORMATION

Derwent Class: S05; T01; T05; W04

International Patent Class (Main): G06K-017/60; G07F-019/00

File Segment: EPI

File 348:EUROPEAN PATENTS 1978-2003/Apr W04
(c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030515,UT=20030508
(c) 2003 WIPO/Univentio

CITICORP

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Set	Items	Description
S1	40834	VISUAL?() (IMPAIRED? OR DISABILITY? OR DISABL?) OR BLIND? OR (LEGAL? OR FUNCTIONAL?) ()BLIND?
S2	69404	FINANCIAL()SERVICE? OR HOME()BANK? OR ATM OR AUTOMATIC()TE- LLER()MACHINE? OR BANK? ? OR BANKING?
S3	519	(SCREEN()READ?) () (DEVICE? OR APPARATUS? OR SOFTWARE) OR SC- REEN()ACCESS()SOFTWARE? OR HOME()PAGE()READER? OR LYNX? OR TE- XT() (READABLE? OR READABILIT?)
S4	3192	(BRAILLE? OR SPEECH?) (3N) (CONVERSION? OR CONVERT?)
S5	178	S1(S)S2
S6	2	S5(S) (S3 OR S4)

6/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01251691

System and method for providing global self-service financial transaction terminals with worldwide web content, centralized management, and local and remote administration

System und Verfahren zum Anbieten von WWW Inhalten, zentralisierte Steuerung sowie Lokal- und Fernverwaltung an globalen finanziellen Selbstbedienungstransaktionsterminals

Système et methode pour fournir les terminaux universels de transactions financieres en libre-service en contenu WWW, gestion centralisee et administration locale et a distance

PATENT ASSIGNEE:

Citicorp Development Center, Inc., (1175292), 12731 W. Jefferson Boulevard, Los Angeles, California 90066, (US), (Applicant designated States: all)

INVENTOR:

Krawiec, Theodore J., 21433 Pacific Ocean Highway, Malibu, California 90265, (US)

Riblett, John Frederick, 11260 Overland Avenue No. 17A, Culver City, California 90230, (US)

Gryte, Stephen M., 12672 Dewey Street, Los Angeles, California 90066, (US)

Yu, Chris, Shu-Wing, 15597 La Subida Drive, Hacienda Heights, California 91745, (US)

LEGAL REPRESENTATIVE:

Johansson, Lars E. et al (23214), Hynell Patenttjänst AB Patron Carls Vag 2, 683 40 Hagfors/Uddeholm, (SE)

PATENT (CC, No, Kind, Date): EP 1081664 A2 010307 (Basic)

APPLICATION (CC, No, Date): EP 203034 000901;

PRIORITY (CC, No, Date): US 152183 990902

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G07F-019/00

ABSTRACT WORD COUNT: 100

NOTE:

Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200110	2313
SPEC A	(English)	200110	10258
Total word count - document A			12571
Total word count - document B			0
Total word count - documents A + B			12571

...SPECIFICATION present invention to provide a system and method for use of an ATM by a **visually impaired** person which utilizes a standard format and **screen reader software** to enable the unsighted person to easily navigate through an **ATM** session.

To achieve the stated and other features, advantages and objects, an embodiment of the...

6/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01215557

Method and system for providing accessibility to financial services for visually impaired persons

Hilfsgerat und -verfahren fur finanziellen Transaktionen fur sehbehinderte Personen

Appareil et procede pour aider les malvoyants a effectuer des transactions financieres

PATENT ASSIGNEE:

Citicorp Development Center, Inc., (1175292), 12731 W. Jefferson Boulevard, Los Angeles, California 90066, (US), (Applicant designated States: all)

INVENTOR:

Grandcolas, Michael L., 247 Ocean Park Boulevard, Santa Monica, California 90034, (US)

Doshi, Ashwin, 18915 Christina Avenue, Cerritos, California 90703, (US)

Law, Patrick, 3709 Watseka Avenue, Apt. 306, Los Angeles, California 90034, (US)

Pfnnell, Nigel, 1120 Pacific Street, Santa Monica, California 90405, (US)

LEGAL REPRESENTATIVE:

Johansson, Lars E. et al (23214), Hynell Patenttjanst AB Patron Carls Vag 2, 683 40 Hagfors/Uddeholm, (SE)

PATENT (CC, No, Kind, Date): EP 1056065 A2 001129 (Basic)

APPLICATION (CC, No, Date): EP 201830 000525;

PRIORITY (CC, No, Date): US 136540 990528; US 155854 990924

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G09B-021/00

ABSTRACT WORD COUNT: 99

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200048	2090
SPEC A	(English)	200048	7741
Total word count - document A			9831
Total word count - document B			0
Total word count - documents A + B			9831

...ABSTRACT A2

A method and system for delivering **financial services**, such as **home banking** services, to **visually impaired** persons utilizes a computing device, such as a personal computer with a **screen reading device**, coupled, for example, to a **home banking** server. A templating scheme assures that the delivery of information in a financial institution's **home banking** product can be easily and efficiently read for a **visually impaired** person by the **screen reading device**. The templating scheme also simplifies overall navigation of the **home banking** product, so that it is easy for the **visually impaired** person to navigate to different functionalities.

File 2:INSPEC 1969-2003/May W2
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File 35:Dissertation Abs Online 1861-2003/Apr
(c) 2003 ProQuest Info&Learning
File 65:Inside Conferences 1993-2003/May W2
(c) 2003 BLDSC all rts. reserv.
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Apr
(c) 2003 The HW Wilson Co.
File 233:Internet & Personal Comp. Abs. 1981-2003/Apr
(c) 2003 Info. Today Inc.
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group
File 474:New York Times Abs 1969-2003/May 16
(c) 2003 The New York Times
File 475:Wall Street Journal Abs 1973-2003/May 16
(c) 2003 The New York Times

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Set	Items	Description
S1	28876	VISUAL?() (IMPAIRED? OR DISABILITY? OR DISABL?) OR BLIND? OR (LEGAL? OR FUNCTIONAL?) ()BLIND?
S2	480667	FINANCIAL()SERVICE? OR HOME()BANK? OR ATM OR AUTOMATIC()TE- LLER()MACHINE? OR BANK? ? OR BANKING?
S3	1486	(SCREEN()READ?) () (DEVICE? OR APPARATUS? OR SOFTWARE) OR SC- REEN()ACCESS()SOFTWARE? OR HOME()PAGE()READER? OR LYNX? OR TE- XT() (READABLE? OR READABILIT?)
S4	813	(BRAILLE? OR SPEECH?) (3N) (CONVERSION? OR CONVERT?)
S5	435	S1 AND S2
S6	1	S5 AND (S3 OR S4)
S7	18	S1(5N) (S3 OR S4)
S8	18	S7 NOT S6
S9	15	S8 NOT PY>2000
S10	15	RD (unique items)

6/5/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
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6039921 INSPEC Abstract Number: A9821-0130C-044, B9811-0100-045,
C9811-5260-023

Title: **Proceedings of the 1998 IEEE International Conference on Acoustics,
Speech and Signal Processing, ICASSP '98 (Cat. No.98CH36181)**

Part vol.1

Publisher: IEEE, New York, NY, USA

Publication Date: 1998 Country of Publication: USA 6 vol. lxiii+3816

pp.

ISBN: 0 7803 4428 6 Material Identity Number: XX98-01407

U.S. Copyright Clearance Center Code: 98/\$10.00

Conference Title: **Proceedings of the 1998 IEEE International Conference
on Acoustics, Speech and Signal Processing**

Conference Sponsor: IEEE Signal Process. Soc

Conference Date: 12-15 May 1998 Conference Location: Seattle, WA, USA

Language: English Document Type: Conference Proceedings (CP)

Abstract: The following topics were dealt with: features for automatic speech recognition; spectral quantisation; speaker adaptation and normalisation; speaker recognition; CELP speech coding; language modelling and understanding; utterance verification and word spotting; techniques for adverse acoustic environments; **speech** synthesis and voice **conversion**; lexical modelling and topic spotting; speech enhancement; acoustic modelling; discriminative training; low bit rate speech coding; speech analysis; large vocabulary continuous speech recognition; image processing; pattern recognition; neural networks for speech processing; system identification and **blind** signal processing; learning theory and algorithms; recursive filters; nonlinear filters; signal-adapted filter **banks**; fast algorithms; adaptive filtering; wavelets; time-frequency analysis; nonlinear signals and systems; signal reconstruction; DSP algorithms; DSP applications; DSP education; statistical signal processing; array processing; **blind** source separation, equalisation and identification; signal detection and classification; time varying parameters estimation; frequency estimation; Markov models; parameter estimation; deconvolution; sonar and radar signal processing; image compression; motion analysis; vector quantisation; image analysis; image segmentation; video compression; image filtering; digital video and libraries; VLSI building blocks; DSP system design and development tools; DSP processor architectures; multimedia; **blind** multiuser communication; CDMA; diversity, synchronisation and interference suppression; antenna arrays; fractional sampling, constant-modulus and adaptive equalisation; source coding; channel coding; multi-rate and multi-carrier communication; acoustics and active noise control; computer music; hearing aids and microphone arrays; echo cancellation; integrated multimedia processing and human computer interface.

Subfile: A B C

Descriptors: acoustic signal processing; acoustics; adaptive filters; array signal processing; channel coding; digital signal processing chips; equalisers; filtering theory; hearing aids; image coding; image processing; image segmentation; interference suppression; microphones; multimedia systems; neural nets; parameter estimation; pattern recognition; radar signal processing; signal detection; signal processing; signal reconstruction; sonar signal processing; source coding; speech coding; speech enhancement; speech processing; speech recognition; speech synthesis; time-frequency analysis; video coding; wavelet transforms

Identifiers: acoustics; automatic speech recognition; spectral quantisation; speaker adaptation; speaker normalisation; speaker recognition; CELP speech coding; language modelling; speech understanding; utterance verification; word spotting; speech synthesis; voice conversion; lexical modelling; topic spotting; speech enhancement; acoustic modelling; discriminative training; low bit rate speech coding; speech analysis; large vocabulary continuous speech recognition; image processing; pattern

10/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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5810721 INSPEC Abstract Number: B9803-7520H-001, C9803-7850-001

Title: A color-to-speech sensory substitution device for the visually impaired

Author(s): McMorrow, G.; Xiaojun Wang; Whelan, P.F.

Author Affiliation: Zandar Technol., Dublin, Ireland

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)

vol.3205 p.272-81

Publisher: SPIE-Int. Soc. Opt. Eng.

Publication Date: 1997 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1997)3205L:272:CSSS;1-A

Material Identity Number: C574-97294

U.S. Copyright Clearance Center Code: 0277-786X/97/\$10.00

Conference Title: Machine Vision Applications, Architectures, and Systems Integration VI

Conference Sponsor: SPIE

Conference Date: 15-16 Oct. 1997 Conference Location: Pittsburgh, PA, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: A hardware device is presented that **converts** color to **speech** for use by the **blind** and visually impaired. The use of audio tones for transferring knowledge of colors identified to individuals was investigated but was discarded in favor of the use of direct speech. A unique color-clustering algorithm was implemented using a hardware description language (VHDL), which in-turn was used to program an Altera Corporation's programmable logic device (PLD). The PLD maps all possible incoming colors into one of 24 color names, and outputs an address to a speech device, which in-turn plays back one of 24 voice recorded color names. To the author's knowledge, there are only two such color to speech systems available on the market. However, both are designed to operate at a distance of less than an inch from the surface whose color is to be checked. The device presented here uses original front-end optics to increase the range of operation from less than an inch to sixteen feet and greater. Because of the increased range of operation, the device can not only be used for color identification, but also as a navigation aid. (11 Refs)

Subfile: B C

Descriptors: colour vision; computer vision; handicapped aids; speech synthesis

Identifiers: sensory substitution device; color-to-speech; visually impaired; audio tones; color-clustering algorithm; hardware description language; programmable logic device; color to speech systems; color identification; navigation aid

Class Codes: B7520H (Aids for the handicapped); B6140C (Optical information, image and video signal processing); C7850 (Computer assistance for persons with handicaps); C5260B (Computer vision and image processing techniques); C1250 (Pattern recognition); C5530 (Pattern recognition and computer vision equipment); C5585 (Speech recognition and synthesis equipment)

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10/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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4681437 INSPEC Abstract Number: B9407-6130-033, C9407-6180G-011

Title: An introduction to outSPOKEN for persons unfamiliar with the Macintosh

Author(s): Rubin, A.; Sutton, M.

Author Affiliation: Berkeley Syst. Inc., CA, USA

p.443-7

Editor(s): Murphy, H.J.

Publisher: California State Univ., Northridge, Northridge, CA, USA

Publication Date: 1992 Country of Publication: USA xiii+657 pp.

Conference Title: Proceedings of Conference. Technology and Persons with Disabilities

Conference Sponsor: Office Disabled Student Services

Conference Date: 18-21 March 1992 Conference Location: Los Angeles, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Product Review (R)

Abstract: The authors briefly describe the Macintosh operating system and how outSPOKEN, a **screen access software** program for the **blind**, can generate speech on a Macintosh. Once outSPOKEN is in the System Folder-the System Folder stores files that are important to the Macintosh's operation-it is automatically launched. Speech output is produced from the Macintosh's internal speech synthesizer by pressing keys on the numeric keypad. Keypad commands allow you to determine how a word is spelled, where it is positioned on the screen, what are its attributes, eg. highlighted, underlined, bold or shadowed text, and other information about text and graphics. Additionally, you can control windows, menus and the mouse, ie. all components unique to the graphical user interface (GUI) of the Macintosh. (0 Refs)

Subfile: B C

Descriptors: Apple computers; graphical user interfaces; handicapped aids ; operating systems (computers); software packages; speech synthesis

Identifiers: outSPOKEN; Macintosh operating system; screen access software program; blind; System Folder; speech output; internal speech synthesizer; keypad command; graphical user interface; GUI; Apple Macintosh

Class Codes: B6130 (Speech analysis and processing techniques); C6180G (Graphical user interfaces); C7850 (Assistance for the handicapped); C6130B (Graphics techniques); C6150J (Operating systems); C5260S (Speech processing); C6180N (Natural language processing)

10/5/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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4681406 INSPEC Abstract Number: C9407-6180-013

Title: Macros and screen access (computer use by the blind)

Author(s): Henter, T.

p.239-43

Editor(s): Murphy, H.J.

Publisher: California State Univ., Northridge, Northridge, CA, USA

Publication Date: 1992 Country of Publication: USA xiii+657 pp.

Conference Title: Proceedings of Conference. Technology and Persons with Disabilities

Conference Sponsor: Office Disabled Student Services

Conference Date: 18-21 March 1992 Conference Location: Los Angeles, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The author looks at computer use by blind people. Application software is very complex, many different screens appear and the keyboard keys are used to perform several different functions depending on the mode. Many different keys or actions can cause changes or new information to appear on the screen. Naturally your eyes are attracted to the change, your brain makes a decision, and you perform accordingly. **Screen access software** can do this for the **blind** user. The access software can sense the changes on the screen, look at the changes to determine if a certain

character or word or color has appeared. If so it can perform certain functions, like reading pertinent information displayed on the screen, or speak a message, or input a command to the application or etc. We would want the access software to be able to perform any keyboard tasks, just like a sighted person with subconscious eye/brain/hand interaction. (0 Refs)

Subfile: C

Descriptors: handicapped aids; macros; user interfaces; voice equipment

Identifiers: blind people; keyboard keys; screen access software

Class Codes: C6180 (User interfaces); C7850 (Assistance for the handicapped); C5585 (Speech recognition and synthesis)

10/5/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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02863594 INSPEC Abstract Number: B87027981, C87024749

Title: Talking teletext receiver for the blind

Author(s): Omotayo, O.R.

Author Affiliation: Dept. of Electr. Eng., Ibadan Univ., Nigeria

Journal: Microprocessors and Microsystems vol.10, no.10 p.553-6

Publication Date: Dec. 1986 Country of Publication: UK

CODEN: MIMID5 ISSN: 0141-9331

U.S. Copyright Clearance Center Code: 0141-9331/86/10553-04\$03.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: By **converting** teletext pages into **speech**, the **blind** population could be afforded an opportunity of accessing broadcast teletext information normally displayed on the screen of a domestic television receiver. The possibility is examined in this paper. A suitable teletext receiver and decoder are described, and system hardware and software for a talking teletext receiver are discussed. Some human factors affecting the design are also discussed. (12 Refs)

Subfile: B C

Descriptors: speech synthesis; teletext

Identifiers: teletext receiver; teletext pages; broadcast teletext information; domestic television receiver; teletext receiver; decoder; system hardware; software; talking teletext receiver

Class Codes: B6210K (Viewdata and teletext); C5585 (Speech recognition and synthesis); C7210 (Information services and centres)

10/5/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02407778 INSPEC Abstract Number: C85017347

Title: Computer for the blind and the deaf

Author(s): Wakita, O.; Kadekawa, S.

Author Affiliation: Tokyo Sci. Center, IBM Japan, Tokyo, Japan

Journal: Information Processing Society of Japan vol.25, no.5 p. 462-70

Publication Date: 1984 Country of Publication: Japan

CODEN: JOSHA4 ISSN: 0447-8053

Language: Japanese Document Type: Journal Paper (JP)

Treatment: Applications (A); Practical (P)

Abstract: Discusses the utilization of a computer for assistance to information communication for the blind and deaf. The discussion includes: (1) the process of communication to and from the **blind** and deaf, (2) **Braille** and inked-character **conversions** through a computer, (3) conversion of characters to sound, and (4) speech training systems. (19 Refs)

Subfile: C

Descriptors: character sets; handicapped aids; speech synthesis; training

Identifiers: blind people; deaf people; speech synthesis; computer assisted information communication; Braille; inked-character conversions; speech training systems

Class Codes: C7890 (Other special applications)

10/5/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02064378 INSPEC Abstract Number: B83035113

Title: The control rule of prosodic features in Braille points-to-speech conversion systems

Author(s): Ishida, Y.; Honda, T.; Ogawa, Y.

Journal: Research Reports of the Faculty of Engineering, Meiji University
no.43 p.19-25

Publication Date: 1982 Country of Publication: Japan

CODEN: MDKKAV ISSN: 0465-6075

Language: Japanese Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: This paper describes a **Braille points-to-speech conversion** system for the **blind**. While the phonemic property can be heightened with the improvement of the synthetic parameter, it is necessary to control a properly prosodic parameter composed of pitch, stress and duration to heighten the natural property. The authors pay attention to the established features of pitch and duration in Japanese speech sounds and introduce a new method to add these features to synthetic speech automatically. (4

Refs)

Subfile: B

Descriptors: speech synthesis

Identifiers: speech synthesis; control rule; prosodic features; Braille points-to-speech conversion systems; blind; phonemic property; pitch; stress; duration; natural property; Japanese speech

Class Codes: B6130 (Speech analysis and processing techniques)

10/5/7 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00608235 00MW08-013

Create a barrier-free Web site -- Opening sites to the visually impaired will benefit everyone

Heid, Jim

Macworld , August 1, 2000 , v17 n8 p109-111, 3 Page(s)

ISSN: 0741-8647

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Takes a look at the issues behind Internet accessibility by focusing on experiences of users with visual impairments. Explains the reality is that many Web sites are cumbersome and nearly impossible for **blind** users to navigate with their **screen reader software**. Highlights pitfalls that include banner advertisements, multicolumn layouts, poorly phrased hyperlinks, and unlabeled graphics. Discusses four easy ideas that can be incorporated in Web page design that can improve accessibility by the disabled and able alike. Says Web forms, often found on shopping sites, have their own accessibility issues and describes two steps to make them ea use. Reports that when designing a Web site tables should be simplified. States that Flash should not be counted on or if use then an alternative non Flash version of the site should be available. Discusses four Web sites to seek to learn about access. Includes two screen displays and two sidebars. (bjp)

Descriptors: Handicapped; Web Page Authoring; Design; Troubleshooting ; Planning

10/5/8 (Item 2 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
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00560142 00FT02-002

Creating an online community - and a market - for the disabled

Kahn, Jeremy

Fortune , February 7, 2000 , v141 n3 p188, 1 Page(s)

ISSN: 0015-8259

Company Name: We Media

URL: <http://www.wemedia.com>

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Reports that We Media, a small New York publisher dedicated to serving the disabled, has launched a Web site that caters to the needs of disabled users. Says that wemedia.com acts as a portal, offering free e-mail and Internet phone service, job and real estate listing services, and specialized vacation planning. Indicates that the 54 million disabled people in the U.S. wield about \$1 trillion in purchasing power and says it is a market worth pursuing. Notes that wemedia.com supports a variety of assistive computer technologies and provides text equivalents for all images and other nontext screen elements, which is critical to **blind** people who rely on **screen - reading software**. Contends that the two-month-old Web site delivers 50 percent of the company's revenues and that is expected to increase to 95 percent. (amg)

Descriptors: Web Sites; Online Information; Human-Computer Interaction
; Electronic Mail; Internet Access; Marketing; Portals

Identifiers: We Media

10/5/9 (Item 3 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
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00097726 84C009-013

Aids for the blind

Kleiman, Glenn M

Compute! , Sep 1984 , v6 n9 p122-124, 3 Pages

ISSN: 0194-357X

Languages: English

Document Type: Column

Geographic Location: United States

LEARNING WITH COMPUTERS column explores the ways computers provide new and powerful aids for blind people. Covers computer speech synthesis, large print displays, tactile forms, Braille word processing, computerized letter recognition, **converting** print to **speech** and technology for the **blind**.

Descriptors: Speech Synthesis; Handicapped; Consumer Information

Identifiers: Sensory Aids Foundation; Telesensory Systems, Inc.;
Visualtek; Kurzweil Computer Products, Inc.

10/5/10 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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09333036

AOL to comply with blind users

US: BLIND DROP AOL LAWSUIT

Los Angeles Times (AUD) 27 Jul 2000 Online

Language: ENGLISH

A lawsuit alleging that America Online (AOL) violated the federal Americans with Disabilities Act has been dropped by the National Federation of the Blind. In exchange, AOL will make its software compatible with programmes used by **blind** people to **convert** digital data to **Braille** or speech. The federation will assess how AOL has done in a year's time and then decide whether or not to carry on with its lawsuit. It is confident, however, that AOL will be able to deliver.

COMPANY: NATL FEDERATION OF THE BLIND; AOL

PRODUCT: Justice & Safety (9101);
EVENT: Personnel Administration (28);
COUNTRY: United States (1USA);

10/5/11 (Item 2 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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04438459

Vorlesegeraet

GERMANY - SCANNER READS TO BLIND PERSONS
Elektronik Technologie Anwendungen Marketing (ETA) 23 July 1991 p9
ISSN: 0174-7452
Language: German

Forschungszentrum Seibersdorf has linked a scanner, character **converter** and synthetic **speech** generator to enable **blind** persons and those with sight problems to 'read' a text. Reading begins within a few seconds of scanning, and the system gives audible warning of a blank page or of rapid or oblique movement of the scanner across the page.** Elektronik Technologie Anwendungen Marketing 23/07/91 p9

PRODUCT: Micrographic Equipment (3861MG);
EVENT: PRODUCTS, PROCESSES & SERVICES (30);
COUNTRY: Germany (4GER); East Germany (4GEREG); OECD Europe (415);
European Economic Community Countries (419); NATO Countries (420);

10/5/12 (Item 3 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

03126227

IBM DEVELOPS SOFTWARE FOR THE BLIND

US - IBM DEVELOPS SOFTWARE FOR THE BLIND
International Business Week (IBW) 18 December 1989 p53
ISSN: 0007-7135

IBM has introduced the 1.1 **Screen Reader software** intended for **blind** users and which can be used on any IBM compatible PC. The software 'reads' a document and then 'talks' to the user. The Screen Reader can be used with a variety of scanners which digitise the material for storage. A voice synthesiser for talking is attached to the computer.

PRODUCT: Artificial Intelligence Systems (3573AI); Microcomputers (3573MI); Computer Software (7372); CAD/CAM Mechanical Software (COSW);
EVENT: PRODUCTS, PROCESSES & SERVICES (30);
COUNTRY: United States (1USA); NATO Countries (420); South East Asia Treaty Organisation (913);

10/5/13 (Item 4 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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01976139

ALCATEL FACE LAUNCHES BRAILLE COMPUTER TERMINALS

ITALY - ALCATEL FACE LAUNCHES BRAILLE COMPUTER TERMINALS

Informatica Oggi Settimanale (IOS) 9 June 1988 p24

Language: Italian

Alcatel Face has introduced a Braille computer terminal for the **blind**. The terminal can **convert** messages typed in **Braille** into normal speech and can work in reverse converting telephone messages to messages on the Braille keyboard.

PRODUCT: Voice Recognition (4811VR);

EVENT: PRODUCTS, PROCESSES & SERVICES (30);

COUNTRY: Italy (4ITA); OECD Europe (415); European Economic Community

Countries (419); NATO Countries (420);

10/5/14 (Item 1 from file: 474)

DIALOG(R)File 474:New York Times Abs

(c) 2003 The New York Times. All rts. reserv.

06290922 NYT Sequence Number: 022225920620

READING MACHINES FOR THE BLIND AT A LOWER COST

SLOANE, LEONARD

New York Times, Col. 1, Pg. 13, Sec. 1

Saturday June 20 1992

DOCUMENT TYPE: Newspaper JOURNAL CODE: NYT LANGUAGE: English

RECORD TYPE: Abstract

ABSTRACT:

Reading machines for blind people are now reaching more individuals who need them as both prices and sizes continue to shrink; these devices, which use voice synthesizers, personal computers and other equipment, help **visually impaired** develop greater independence by **converting** text to **speech**; photo (M)

SPECIAL FEATURES: Photo

DESCRIPTORS: BLINDNESS; READING; SPEECH; PERSONAL COMPUTERS; CONSUMER'S WORLD PAGE (NYT)

PERSONAL NAMES: SLOANE, LEONARD

10/5/15 (Item 1 from file: 475)

DIALOG(R)File 475:Wall Street Journal Abs

(c) 2003 The New York Times. All rts. reserv.

07993902 NYT Sequence Number: 000000980909

ON-LINE: BLIND WEB USERS CAMPAIGN TO 'SEE' MORE OF CYBERSPACE

WINGFIELD, NICK

Wall Street Journal, Col. 3, Pg. 1, Sec. B

Wednesday September 9 1998

DOCUMENT TYPE: Newspaper JOURNAL CODE: WSJ LANGUAGE: English

RECORD TYPE: Abstract

ABSTRACT:

As the World Wide Web's design becomes more complex, disabled Web surfers are growing worried that too many sites are shutting them out; one Web-access manager estimates that less than 1% of sites have acted to make their pages accessible to the disabled; there is ' **screen reader** ' **software** for **blind** users, but many sites are not compatible with the readers (M)

DESCRIPTORS: INTERNET AND WORLD WIDE WEB; HANDICAPPED; BLINDNESS; COMPUTERS AND INFORMATION SYSTEMS

?ds

Set	Items	Description
S1	144	VISUAL?() (IMPAIRED? OR DISABILITY? OR DISABL?) OR BLIND? OR (LEGAL? OR FUNCTIONAL?) () BLIND?
S2	3542	FINANCIAL()SERVICE? OR HOME()BANK? OR ATM OR AUTOMATIC()TE- LLER()MACHINE? OR BANK? ? OR BANKING?
S3	65	(SCREEN()READ?) () (DEVICE? OR APPARATUS? OR SOFTWARE) OR SC- REEN()ACCESS()SOFTWARE? OR HOME()PAGE()READER? OR LYNX? OR TE- XT() (READABLE? OR READABILIT?)
S4	32	(BRAILLE? OR SPEECH?) (3N) (CONVERSION? OR CONVERT?)
S5	6	S1 AND S2
S6	3	S5 NOT PY>2000
S7	6	S1 AND (S3 OR S4)
S8	6	S7 NOT S6
S9	5	S8 NOT PY>2000

6/5/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00126919 DOCUMENT TYPE: Review

PRODUCT NAMES: Neural Networks (830078)

TITLE: If It Only Had A Brain: Neural net marketers should have thought...

AUTHOR: Hapgood, Fred

SOURCE: CIO, v13 n20 p174(2) Aug 1, 2000

ISSN: 0894-9301

HOME PAGE: <http://www.cio.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Neural networks, which are 'programs that arrange complicated objects into groups,' can be used to sort various types of information using methods similar to those used by the human brain. For instance, a 1992 article describing neural net technology held, 'A serial computer, like the brain's left hemisphere, is ideal for managing your **bank** account...while a right-brained artificial neural network could discern your spending habits by looking at the past year's checks.' This ambitious definition has not been validated, and in 1995, a survey revealed that companies attempting to sell neural nets lasted only an average of six months. Warren Sarle, manager of research and development for SAS Institute, recently published an essay that describes neural nets as a '**blind** kangaroo holding an altimeter, hopping around trying to find this point,' where the point is the highest point in the landscape and the landscape represents the problem to be solved. Sarle is emphasizing the fact that neural networks are very difficult to configure. For neural networks to work effectively, 'somebody must figure out how far and in what direction the kangaroo should hop, how much history it needs to retain of its previous efforts, and what sorts of analysis it needs to do on that history.' Neural networks are now more realistically thought of as ordinary self-executing statistical functions or formulae. The market for them now consists of products optimized by vendors for particular applications, generally bundled to provide a sorting toolbox with many other classification or generalization systems.

COMPANY NAME: Vendor Independent (999999)

DESCRIPTORS: Artificial Intelligence; Expert Systems; Neural Networks;
Software Marketing

REVISION DATE: 20010130

6/5/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00115054 DOCUMENT TYPE: Review

PRODUCT NAMES: Internet Marketing (835552); Fraud Protection (844829)

TITLE: Web Merchants Stung By Fraud

AUTHOR: Morgan, Cynthia

SOURCE: Computerworld, v33 n10 p24(1) Mar 8, 1999

ISSN: 0010-4841

HOME PAGE: <http://www.computerworld.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Surprisingly it is not online e-commerce buyers but merchants who are being stung frequently by fraud, specifically the increasing fraudulent use of credit cards for online purchases. A shocking 20 percent of all online transactions were written off to fraudulent credit sales until many vendors began using anti-fraud software. Another reason for the increased credit card problem is that most law enforcement, agencies, **banks**, and credit-card companies turn a **blind** eye to the problem due to indifference and/or the lack of trained employees qualified to track down online frauds. Included in this story is a table listing five fraud-detection software products for merchants and **banks** to use with online e-commerce operations.

COMPANY NAME: Vendor Independent (999999)
SPECIAL FEATURE: Tables
DESCRIPTORS: Credit Analysis; Credit Cards; Fraud Protection; Internet Marketing; Retailers; Risk Analysis
REVISION DATE: 20020830

6/5/3

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00113879 DOCUMENT TYPE: Review

PRODUCT NAMES: Linux (833916); GNOME (150924)

TITLE: Linux vendors crank out features
AUTHOR: Hohman, Robin Schreier
SOURCE: Network World, v16 n2 p6(1) Jan 11, 1999
ISSN: 0887-7661
HOMEPAGE: <http://www.nwfusion.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

Linux's new features include an open source GUI that helps accept Linux on the desktop, device drivers for **ATM** and token-ring networks, the ability to run distributed applications, and parallel processing features that allow linked Linux boxes compete with supercomputers. Linux is working on GNU Network Object Model Environment (GNOME), a project to build a new open source graphical user interface (GUI). GNOME developers are trying to create a more stable and intuitive interface than that of Microsoft Windows. Linux's project, Blinux, seeks to create software that enables **blind** and deaf users use Linux workstations.

COMPANY NAME: Vendor Independent (999999); Free Software Foundation Inc (455962)
DESCRIPTORS: Disability Aids; Linux; Network Software; Operating Systems; User Interfaces; Windowing
REVISION DATE: 20030428

9/5/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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01765848 DOCUMENT TYPE: Product

PRODUCT NAME: IBM Home Page Reader 3.021 (765848)

IBM Corp (351245)
1133 Westchester Ave
White Plains, NY 10604 United States
TELEPHONE: (914) 499-1900

RECORD TYPE: Directory

CONTACT: Sales Department

IBM **Home Page Reader 3.021** from IBM provides Web access for the **blind and visually impaired**. It presents Web information by speaking it aloud. HPR describes both text and graphics so Web searchers get the complete picture, just as a sighted user would. **Home Page Reader** works without a hardware synthesizer; it uses a software-based voice synthesizer and the computer's sound card for speech output and the standard keyboard's numeric keypad for input. Based upon IBM's ViaVoice voice technology and the Internet Explorer browser, **Home Page Reader** makes navigating even complex Web pages with embedded tables simple. Searchers can follow related links, listen to Page Reader supports multimedia content and JavaScript pages. summaries of tables, and get help on any **Home Page Reader** key. The reading system uses a selection of voices to read different types of text, which helps searchers navigate efficiently. Surfers can also save and organize Web bookmarks. **Home Page Reader** also offers integrated e-mail features. The system is offered in U.S. and British English, Italian, German, French, Spanish, Brazilian Portuguese, and other spoken languages.

DESCRIPTORS: Disability Aids; E-Mail Utilities; Foreign Language Packages;
Internet Browsers; Search Engines; Speech Synthesis; User Interfaces

HARDWARE: IBM PC & Compatibles; Pentium

OPERATING SYSTEM: Internet Explorer; Windows; Windows NT/2000; Windows XP

PROGRAM LANGUAGES: HTML

TYPE OF PRODUCT: Micro

POTENTIAL USERS: Blind or Visually Impaired Web Users, Cross Industry

PRICE: \$149; \$79--additional license; \$129--by download; non-English
product prices available; 30-day trial available

DOCUMENTATION AVAILABLE: Online documentation; audiotape documentation

OTHER REQUIREMENTS: 48MB RAM; Pentium+ CPU; Win 98+; 4x+ CD-ROM drive;
28.8Kbps+ modem

REVISION DATE: 20030424

9/5/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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01762784 DOCUMENT TYPE: Product

PRODUCT NAME: JAWS for Windows Standard & Professional 4 (762784)

Henter-Joyce Inc (551601)
11800 31st Ct N
St Petersburg, FL 33716-1805 United States
TELEPHONE: (727) 803-8000

RECORD TYPE: Directory

CONTACT: Sales Department

Henter-Joyce's/Freedom Scientific's JAWS (R) for Windows 4 (JFW) is **screen reader software** used by **blind** and **visually impaired** computer users to access a whole world of information, education, and job-related applications. Users can browse the Web, read or write e-mail, calculate a spreadsheet, or access a database. JFW offers unparalleled access to most popular applications. Enhanced support is available for some applications, including Internet Explorer, HTML, Microsoft Outlook, Microsoft Office, WordPerfect, and RealPlayer. JAWS for Windows includes a multilingual speech synthesizer that works with a Microsoft (R) Windows-compatible sound card; online context-sensitive documentation; and powerful customization tools such as Dictionary, Configuration, Keyboard, Frame, and Script Managers. Application-specific cassette tutorials are available, and documentation is available in Braille. JAWS works with most refreshable Braille displays. It is available in Standard & Professional editions.

DESCRIPTORS: Disability Aids; Foreign Language Packages; Internet Browsers
; Speech Synthesis; System Utilities; User Interfaces

HARDWARE: IBM PC & Compatibles

OPERATING SYSTEM: Internet Explorer; Microsoft Word; Windows; Windows
NT/2000; Windows XP; WordPerfect

PROGRAM LANGUAGES: Not Available

TYPE OF PRODUCT: Micro

POTENTIAL USERS: Cross Industry, Visually Impaired Computer Users

DATE OF RELEASE: 01/1995

PRICE: \$795; \$1,495--NT version; demo version--\$39.95

NUMBER OF INSTALLATIONS: 30000

DOCUMENTATION AVAILABLE: User manuals; Braille manuals; tutorials; online
documentation

TRAINING AVAILABLE: Training; telephone support; videotape training;
on-site training; e-mail support; technical support

OTHER REQUIREMENTS: Win 9x+ required

SERVICES AVAILABLE: Integration

REVISION DATE: 20030313

9/5/3

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

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00117653

DOCUMENT TYPE: Review

PRODUCT NAMES: ZOOMTEXT Xtra (017000); JAWS for Windows (762784); OMNI
1000 (759856)

TITLE: Adaptive Technology Equipment for the Library

AUTHOR: Lisiecki, Christine

SOURCE: Computers in Libraries, v19 n6 p18(4) Jun 1999

ISSN: 1041-7915

HOMEPAGE: <http://www.infotoday.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

The New Jersey Library for the **Blind** and Handicapped administers a grant that loans adaptive equipment to colleges in New Jersey for use by students with disabilities. The New Jersey Library for the **Blind** and Handicapped provides technical assistance and training on their adaptive equipment. Adaptive equipment such as closed circuit television and AI Squared's

ZOOMTEXT Xtra provides people with low vision the ability to access most of a library's collection. Closed circuit television is a freestanding device with a video camera, and a television type screen. Reading material is placed on a sliding tray under the camera and has a magnification of 2x to 60x. ZOOMTEXT Xtra, is a screen magnification program that is compatible with Windows 97 and allows partial or full screen enlargement. For people with little usable vision there are books on tape and **screen reading software** programs. OMNI 1000, from Kurzweil (now Lernout & Hauspie) provides the ability to scan in information from a book, newspaper, or magazine and have it read aloud by the screen reader. **Screen reading software** programs such as JAWS (Job Access With Speech) for Windows from Henter-Joyce allows a **blind** person to have access to speech output on a computer that a library is using to access its catalog or the Internet. A teletypewriter is a very important device for a library to have. It is for people who are deaf or are hard of hearing, and allows them to contact the library to request books or sign up for programs. A list of Internet sites and adaptive technology vendors is included.

COMPANY NAME: AI Squared (430269); Henter-Joyce Inc (551601); ScanSoft Inc (088358)

SPECIAL FEATURE: Photographs

DESCRIPTORS: Computer Equipment; Disability Aids; IBM PC & Compatibles; Libraries; OPAC Library Catalogs; Speech Synthesis; User Interfaces; Windows

REVISION DATE: 20030327

9/5/4

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.

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00075076 DOCUMENT TYPE: Review

PRODUCT NAMES: SounText (546721)

TITLE: PCs Are People Too

AUTHOR: Tynan, Daniel

SOURCE: Computer Currents, v12 n19 p76(2) Feb 21, 1995

ISSN: 8756-0046

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

Users are always looking for ways to make their computers more personal and less mechanical in the way they interact with the human owner. SounText, a product that allows the computer to talk, can help. The user teaches SounText what to say, and the hardware/software combination **converts** written text to **speech**. Phonetics make SounText work, as the program converts typed letters into spoken language; however, the user may have to teach the program names by providing a phonetic pronunciation. SounText is not a must-have for the average computing individual, and its icons are too small for the **visually impaired**. The recommended Pocket Finance hardware/software product is an electronic check register that looks like a checkbook. The user can enter transactions when they occur (in the useful Quicken Interchange Format for uploading to the PC) and store phone numbers and notes. Expenses can be extensively subcategorized.

COMPANY NAME: Fortress Systems Inc (600369)

SPECIAL FEATURE: Screen Layouts

DESCRIPTORS: Handhelds & Palmtops; Mobile Computing; Personal Finance; Speech Synthesis; User Interfaces

REVISION DATE: 20020930

9/5/5

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00068124 DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Access 97 Windows (387894); Keycache (524522);
DECTalk Speech Option Kit (524531); WinVision Ultra Pack (504133)

TITLE: Equal Access Windows

AUTHOR: Lazzaro, Joseph J Kenworthy, Karen

SOURCE: Windows Magazine, v5 n9 p200(7) Sep 1994

ISSN: 1060-1066

HOME PAGE: <http://www.winmag.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Windows makes computing easy enough to meet the adaptive needs of many physically challenged employees. If further enhancements are required, many Windows-compatible products are available that meet special needs. For the motion-impaired, Access Pack for Windows is a set of special drivers that un-complicate key combinations and allow the arrow keys to be used instead of a mouse. DButton for Windows simulates a mouse for those who cannot use their hands, and Keycache reduces the amount of typing necessary by monitoring input and finishing often-used words. The **visually impaired** can use DECTalk Speech Option Kit, a high-quality voice synthesizer with nine voices that works with many **screen - reading software** packages. WinVision Ultra Pack provides a screen reader for DOS and Windows, headphones, a speaker, and a speech synthesizer.

COMPANY NAME: Microsoft Corp (112127); OMS (590151); ScanSoft Inc (088358); Artic Technologies (419559)

SPECIAL FEATURE: Tables Screen Layouts

DESCRIPTORS: Access; Disability Aids; IBM PC & Compatibles; Mouse Alternatives; Speech Synthesis; User Interfaces; Windows

REVISION DATE: 20020930

File 608:KR/T Bus.News. 1992-2003/May 19
 (c)2003 Knight Ridder/Tribune Bus News
 File 625:American Banker Publications 1981-2003/May 19
 (c) 2003 American Banker
 File 268:Banking Info Source 1981-2003/May W2
 (c) 2003 ProQuest Info&Learning
 File 626:Bond Buyer Full Text 1981-2003/May 19
 (c) 2003 Bond Buyer
 File 267:Finance & Banking Newsletters 2003/May 19
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?ds

Set	Items	Description
S1	11770	VISUAL?() (IMPAIRED? OR DISABILITY? OR DISABL?) OR BLIND? OR (LEGAL? OR FUNCTIONAL?) () BLIND?
S2	950472	FINANCIAL()SERVICE? OR HOME()BANK? OR ATM OR AUTOMATIC()TE- LLER()MACHINE? OR BANK? ? OR BANKING?
S3	726	(SCREEN()READ?) () (DEVICE? OR APPARATUS? OR SOFTWARE) OR SC- REEN()ACCESS()SOFTWARE? OR HOME()PAGE()READER? OR LYNX? OR TE- XT() (READABLE? OR READABILIT?)
S4	91	(BRAILLE? OR SPEECH?) (3N) (CONVERSION? OR CONVERT?)
S5	1682	S1(S)S2
S6	2	S5(S) (S3 OR S4)
S7	2	RD (unique items)

7/3,K/1 (Item 1 from file: 268)
DIALOG(R)File 268:Banking Info Source
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00222264

Financial institutions get equipment for blind employees

Smith, Franklin

American Banker, p2, 12, 14, Dec 10, 1982 LANGUAGE: English

RECORD TYPE: Abstract

...ABSTRACT: 000 high-speed braille printer produces braille from sources of coded information. Data can be **converted** into **braille** or audio form. Program participants attend a 13-week course on computer programming designed for the **visually impaired**.

7/3,K/2 (Item 1 from file: 267)
DIALOG(R)File 267:Finance & Banking Newsletters
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04590547

Powering Exceptional Brokers: With a little boost from technology, these special brokers have come far. If you share their spirit, think of what technology can do for you.

Tony Chapelle

On Wall Street

June 1,2002 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: SECURITIES DATA PUBLISHING

LANGUAGE: ENGLISH

WORD COUNT: 2895

RECORD TYPE: FULLTEXT

(c) SECURITIES DATA PUBLISHING All Rts. Reserv.

TEXT:

...of a special group of brokers - those with disabilities. Ever wonder how brokers who are **blind**, deaf or paralyzed get through the day? Have you ever even realized there are such manager of Merrill's Special Needs **Financial Services** Group, which serves clients with disabilities. Sullivan's group, unique on Wall Street, serves 10...

...billion in assets. Sullivan manages programs for clients who are deaf and hard of hearing, **blind**, have children with disabilities or require medical management services.

Hlibok, whom Sullivan calls a "remarkable...person. I believe that the sky is the limit for physically challenged people in the **financial services** business. I don't think a lot of technology is necessary; nothing replicates intelligence or...

...ago, as a rookie at Piper Jaffray, the 36-year-old Purtle - who started going **blind** in college as a result of retinitis pigmentosa (RP) - never would have made it without...

...speaks" printed pages. Just about everything on his computer gets "voiced" with the aid of **screen - reader software** known as Job Access With Speech (JAWS), produced by Henter- ...a day that are presented by the Newsline service of the National Federation of the **Blind**. The service offers more than 70 U.S. newspapers in spoken-word form over the...

...local civic and business groups, as well as organizations including the State Academy for the **Blind** and the National Federation of the **Blind**, where he was mentored by Rich Crawford, another **blind** broker.

"At the National Federation, they teach you that while you may have challenges, you...

File 344:Chinese Patents Abs Aug 1985-2003/Feb
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)
(c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200331
(c) 2003 Thomson Derwent
File 348:EUROPEAN PATENTS 1978-2003/Apr W04
(c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030515,UT=20030508
(c) 2003 WIPO/Univentio

?ds

Set	Items	Description
S1	23	AU='GRANDCOLAS':AU='GRANDCOLAS MICHAEL L'
S2	6	S1 AND VISUALLY
S3	10	AU='DOSHI A':AU='DOSHI ASHWIN'
S4	4	S3 AND VISUALLY
S5	63	AU='LAW P':AU='LAW PAUL WILLIAM'
S6	2	S5 AND VISUALLY
S7	11	AU='PINNELL N':AU='PINNELL S'
S8	0	S7 AND VISUALLY

.2/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013898838 **Image available**
WPI Acc No: 2001-383051/200141
XRPX Acc No: N01-280992

Financial services method and a system for providing accessibility to financial services, such as home banking, for visually impaired persons uses a computing system such as a personal computer (PC) with a screen reading device

Patent Assignee: CITICORP DEV CENT INC (CITI-N)
Inventor: DOSHI A; **GRANDCOLAS M L** ; LAW P; PFNELL N
Number of Countries: 025 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1056065	A2	20001129	EP 2000201830	A	20000525	200141 B

Priority Applications (No Type Date): US 99155854 P 19990924; US 99136540 P 19990528

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1056065	A2	E	20	G09B-021/00	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

... **method and a system for providing accessibility to financial services, such as home banking, for visually impaired persons uses a computing system such as a personal computer (PC) with a screen...**

...Inventor: **GRANDCOLAS M L**

Abstract (Basic):

... a financial institution's home banking product can be easily and efficiently read for a **visually** impaired person (2) using screen reading device so simplifying the overall navigation of the product.

... As a method and a system for providing accessibility to financial services for **visually** impaired persons...

...simplifies the overall navigation of the home banking product so that it is easy for **visually** impaired persons to navigate to different functionalities...

...the **visually** impaired person. (2...

2/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

013641462 **Image available**
WPI Acc No: 2001-125670/200114
XRPX Acc No: N01-092578

System for assisting visually impaired to perform financial transactions on automated teller machine using touch-screen and jack for providing audible information

Patent Assignee: CITICORP DEV CENT INC (CITI-N)
Inventor: COHEN A E; **GRANDCOLAS M L** ; GRYTE S M; PETACH T A; SEARS M L
Number of Countries: 026 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1065638	A2	20010103	EP 2000202282	A	20000630	200114 B
US 6464135	B1	20021015	US 99141288	A	19990630	200271
			US 2000607919	A	20000630	

Priority Applications (No Type Date): US 99141288 P 19990630; US 2000607919 A 20000630

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
EP 1065638 A2 E 16 G07F-019/00
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI
US 6464135 B1 G06K-017/60 Provisional application US 99141288

System for assisting visually impaired to perform financial transactions on automated teller machine using touch-screen and jack for

...
...Inventor: **GRANDCOLAS M L**

Abstract (Basic):

... A user can start a **visually** impaired person mode by pressing the top right hand corner of the touch-screen twice...

... AN INDEPENDENT CLAIM is included for a method of assisting **visually** impaired individuals in performing financial transactions at automated teller machines (ATM...)

...Providing multifunction financial services to **visually** impaired users through an ATM or customer access point...

2/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

011099066 **Image available**

WPI Acc No: 1997-076991/199707

XRPX Acc No: N97-063959

Multidigit number input method for visually impaired people e.g. for customer service terminal - touching one area of touch screen number of times equal to digit then touching second location indicating completion of number and third location when all digits are entered

Patent Assignee: TRANSACTION TECHNOLOGY INC (TRAN-N)

Inventor: BLUMSTEIN P; COLE R; COOK J; DOSHI A; FENSTER V; **GRANDCOLAS M** ; GREENBERG W; GRYTE S; MCCALLICK F; MILLO P; MOSKOWITZ M; SCHECHTMAN H; SEARS M; SHULMAN S; SIDIKMAN P; VIRNIG A J; WITMAN P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5589855	A	19961231	US 92930319	A	19920814	199707 B

Priority Applications (No Type Date): US 92930319 A 19920814

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 5589855 A 13 G09G-005/00

Multidigit number input method for visually impaired people e.g. for customer service terminal...

...Inventor: **GRANDCOLAS M**

2/3,K/4 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01288961

System and method for delivering financial services
System und Verfahren zum Ausliefern von Finanzdienstleistungen
Systeme et methode de delivrance de services financiers

PATENT ASSIGNEE:

Citicorp Development Center, Inc., (1175292), 12731 W. Jefferson Boulevard, Los Angeles, California 90066, (US), (Applicant designated States: all)

INVENTOR:

Grandcolas , Micael L., 247 Ocean Park Boulevard, Santa Monica, CA 90405
 , (US)
 Bryant, Nancy, 13112 Dewey Street, Los Angeles, CA 90066, (US)
 Schechtman, Howard A., 5875 Green Meadow Drive, Agoura Hills, CA 91301,
 (US)
 Parekh, Dilip J., 6430 Riggs Place, Los Angeles, CA 90045, (US)
 LEGAL REPRESENTATIVE:
 Johansson, Lars E. et al (23214), Hynell Patenttjanst AB Patron Carls Vag
 2, 683 40 Hagfors/Uddeholm, (SE)
 PATENT (CC, No, Kind, Date): EP 1107149 A2 010613 (Basic)
 EP 1107149 A3 011107
 APPLICATION (CC, No, Date): EP 2000203324 000927;
 PRIORITY (CC, No, Date): US 169982 P 991210
 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
 LU; MC; NL; PT; SE
 EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
 INTERNATIONAL PATENT CLASS: G06F-017/60.
 ABSTRACT WORD COUNT: 286
 NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200124	1322
SPEC A	(English)	200124	18238
Total word count - document A			19560
Total word count - document B			0
Total word count - documents A + B			19560

INVENTOR:

Grandcolas , Micael L...

...SPECIFICATION aspect of an embodiment of the present invention.

In another embodiment, Global CAT 300 supports **visually** impaired persons. Because of the configurable nature of Global Cat 300, support for **visually** impaired persons is treated substantially as if it were a different language in the CAT...

...because the Global CAT screens for sighted persons are in color, but the screens for **visually** impaired persons are in black and white for high contrast, and there are relatively minor...

...more easily read by a screen reader which is employed to read the screen for **visually** impaired persons. With the screens in the local language, the screen reader is able to support the screens in that language. For example, in Puerto Rico, in order to support **visually** impaired persons, the screen reader reads the Spanish screens.

VII. Legacy Migration

The delivery system...

2/3,K/5 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

01228176

Method and system for assisting the visually impaired in performing financial transactions

Hilfssystem und -verfahren fur Sehbehinderte zur Ausfuhrung von finanziellen Transaktionen

Methode et systeme pour aider des malvoyants a realiser des transactions financieres

PATENT ASSIGNEE:

Citicorp Development Center, Inc., (1175292), 12731 W. Jefferson
Boulevard, Los Angeles, California 90066, (US), (Applicant designated
States: all)

INVENTOR:

Cohen, Albert E., 1842 Greenfield Avenue #201, Los Angeles, CA 90025,
(US)

Grandcolas , Michael L., 247 Ocean Park Boulevard, Santa Monica, CA
90405, (US)

Gryte, Stephen M, 12672 Dewey Street, Los Angeles, CA 90066, (US)

Petach, Teresa A, 12773 Cawell Avenue#201, Los Angeles, CA 90066, (US)

Sears, Micael L, 2567 Plaza del Amo #101, Torrance, CA 90503, (US)

LEGAL REPRESENTATIVE:

Johansson, Lars E. et al (23214), Hynell Patenttjanst AB Patron Carls Vag
2, 683 40 Hagfors/Uddeholm, (SE)

PATENT (CC, No, Kind, Date): EP 1065638 A2 010103 (Basic)

APPLICATION (CC, No, Date): EP 202282 000630;

PRIORITY (CC, No, Date): US 141288 990630

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G07F-019/00

ABSTRACT WORD COUNT: 204

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200101	667
SPEC A	(English)	200101	6453
Total word count - document A			7120
Total word count - document B			0
Total word count - documents A + B			7120

**Method and system for assisting the visually impaired in performing
financial transactions**

INVENTOR:

... US)

Grandcolas , Michael L...

...ABSTRACT A2

The present invention pertains to a system and method for assisting a
visually impaired individual in performing a financial transaction at an
automated teller machine, comprising initiating a **visually** impaired
transaction session through a preset event at the automated teller
machine; wherein the automated...

...output jack corresponding to information provided on the touch screen
display; providing instructions to the **visually** impaired individual for
performing the financial transaction through the output jack which
provides signals which...

...be converted to audible sounds by means of a headset; and receiving
input from the **visually** impaired individual through the touch screen
display.

2/3,K/6 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

01215557

**Method and system for providing accessibility to financial services for
visually impaired persons**

Hilfsgerat und -verfahren fur finanziellen Transaktionen fur sehbehinderte

4/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

013898838 **Image available**
WPI Acc No: 2001-383051/200141
XRPX Acc No: N01-280992

Financial services method and a system for providing accessibility to financial services, such as home banking, for visually impaired persons uses a computing system such as a personal computer (PC) with a screen reading device

Patent Assignee: CITICORP DEV CENT INC (CITI-N)
Inventor: DOSHI A ; GRANDCOLAS M L; LAW P; PFNELL N
Number of Countries: 025 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1056065	A2	20001129	EP 2000201830	A	20000525	200141 B

Priority Applications (No Type Date): US 99155854 P 19990924; US 99136540 P 19990528

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1056065	A2	E	20	G09B-021/00	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

... **method and a system for providing accessibility to financial services, such as home banking, for visually impaired persons uses a computing system such as a personal computer (PC) with a screen...**

Inventor: DOSHI A ...

Abstract (Basic):

... a financial institution's home banking product can be easily and efficiently read for a **visually** impaired person (2) using screen reading device so simplifying the overall navigation of the product.

... As a method and a system for providing accessibility to financial services for **visually** impaired persons...

...simplifies the overall navigation of the home banking product so that it is easy for **visually** impaired persons to navigate to different functionalities...

...the **visually** impaired person. (2...

4/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

011099066 **Image available**
WPI Acc No: 1997-076991/199707
XRPX Acc No: N97-063959

Multidigit number input method for visually impaired people e.g. for customer service terminal - touching one area of touch screen number of times equal to digit then touching second location indicating completion of number and third location when all digits are entered

Patent Assignee: TRANSACTION TECHNOLOGY INC (TRAN-N)
Inventor: BLUMSTEIN P; COLE R; COOK J; DOSHI A ; FENSTER V; GRANDCOLAS M; GREENBERG W; GRYTE S; MCCALLICK F; MILLO P; MOSKOWITZ M; SCHECHTMAN H; SEARS M; SHULMAN S; SIDIKMAN P; VIRNIG A J; WITMAN P
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5589855	A	19961231	US 92930319	A	19920814	199707 B

Priority Applications (No Type Date): US 92930319 A 19920814

Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 5589855 A 13 G09G-005/00

Multidigit number input method for visually impaired people e.g. for
customer service terminal...
...Inventor: DOSHI A

4/3,K/3 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01215557

Method and system for providing accessibility to financial services for
visually impaired persons
Hilfsgerat und -verfahren fur finanziellen Transaktionen fur sehbehinderte
Personen
Appareil et procede pour aider les malvoyants a effectuer des transactions
financieres

PATENT ASSIGNEE:

Citicorp Development Center, Inc., (1175292), 12731 W. Jefferson
Boulevard, Los Angeles, California 90066, (US), (Applicant designated
States: all)

INVENTOR:

Grandcolas, Michael L., 247 Ocean Park Boulevard, Santa Monica,
California 90034, (US)
Doshi, Ashwin , 18915 Christina Avenue, Cerritos, California 90703, (US)
Law, Patrick, 3709 Watseka Avenue, Apt. 306, Los Angeles, California
90034, (US)
Pfnell, Nigel, 1120 Pacific Street, Santa Monica, California 90405, (US)

LEGAL REPRESENTATIVE:

Johansson, Lars E. et al (23214), Hynell Patenttjanst AB Patron Carls Vag
2, 683 40 Hagfors/Uddeholm, (SE)

PATENT (CC, No, Kind, Date): EP 1056065 A2 001129 (Basic)

APPLICATION (CC, No, Date): EP 201830 000525;

PRIORITY (CC, No, Date): US 136540 990528; US 155854 990924

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G09B-021/00

ABSTRACT WORD COUNT: 99

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200048	2090
SPEC A	(English)	200048	7741
Total word count - document A			9831
Total word count - document B			0
Total word count - documents A + B			9831

Method and system for providing accessibility to financial services for
visually impaired persons

INVENTOR:

... US)
Doshi, Ashwin ...

...ABSTRACT A2

A method and system for delivering financial services, such as home
banking services, to visually impaired persons utilizes a computing
device, such as a personal computer with a screen reading...

...a financial institution's home banking product can be easily and

efficiently read for a **visually** impaired person by the screen reading device. The templating scheme also simplifies overall navigation of the home banking product, so that it is easy for the **visually** impaired person to navigate to different functionalities.

4/3,K/4 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00400754 **Image available**

AN IMPROVED METHOD AND SYSTEM FOR PERFORMING BANKING TRANSACTIONS,
INCLUDING HOME BANKING
PROCEDE ET SYSTEME AMELIORES PERMETTANT D'EFFECTUER DES TRANSACTIONS-
BANCAIRES MEME A DOMICILE

Patent Applicant/Assignee:

CITIBANK N A,
ANTHONY Wendell W,
HUANG Jundar,
NGUYEN Truc,
DOSHI Ashwin,
MOSS Leslie,
WILLIAMS Michael,
THOMPSON David,
LAW Hock,
EICHENSEER Donald,
SAUSSY Stephen Edward,
DO Khanh,
LUONG Binh,

Inventor(s):

ANTHONY Wendell W,
HUANG Jundar,
NGUYEN Truc,
DOSHI Ashwin ,
MOSS Leslie,
WILLIAMS Michael,
THOMPSON David,
LAW Hock,
EICHENSEER Donald,
SAUSSY Stephen Edward,
DO Khanh,
LUONG Binh

Patent and Priority Information (Country, Number, Date):

Patent: WO 9741498 A2 19971106

Application: WO 97US6245 19970418 (PCT/WO US9706245)

Priority Application: US 9615819 19960418

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW
MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN GH KE LS
MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE
IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 20383

Inventor(s):

... DOSHI Ashwin

Fulltext Availability:

Detailed Description

Detailed Description

... and - 19 selecting setup from the A drive that begins the initialization process. The customer **visually** sees a splash screen on the monitor 202 introducing the customer to the installation. The...

6/3,K/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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013898838 **Image available**
WPI Acc No: 2001-383051/200141
XRPX Acc No: N01-280992

Financial services method and a system for providing accessibility to financial services, such as home banking, for visually impaired persons uses a computing system such as a personal computer (PC) with a screen reading device

Patent Assignee: CITICORP DEV CENT INC (CITI-N)
Inventor: DOSHI A; GRANDCOLAS M L; **LAW P**; PFNELL N
Number of Countries: 025 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1056065	A2	20001129	EP 2000201830	A	20000525	200141 B

Priority Applications (No Type Date): US 99155854 P 19990924; US 99136540 P 19990528

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1056065	A2	E	20	G09B-021/00	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

... **method and a system for providing accessibility to financial services, such as home banking, for visually impaired persons uses a computing system such as a personal computer (PC) with a screen...**
...Inventor: **LAW P**

Abstract (Basic):

... a financial institution's home banking product can be easily and efficiently read for a **visually** impaired person (2) using screen reading device so simplifying the overall navigation of the product.

... As a method and a system for providing accessibility to financial services for **visually** impaired persons...

...simplifies the overall navigation of the home banking product so that it is easy for **visually** impaired persons to navigate to different functionalities...

...the **visually** impaired person. (2...

6/3,K/2 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01215557

Method and system for providing accessibility to financial services for visually impaired persons

Hilfsgerat und -verfahren fur finanziellen Transaktionen fur sehbehinderte Personen

Appareil et procede pour aider les malvoyants a effectuer des transactions financieres

PATENT ASSIGNEE:

Citicorp Development Center, Inc., (1175292), 12731 W. Jefferson Boulevard, Los Angeles, California 90066, (US), (Applicant designated States: all)

INVENTOR:

Grandcolas, Michael L., 247 Ocean Park Boulevard, Santa Monica, California 90034, (US)

Doshi, Ashwin, 18915 Christina Avenue, Cerritos, California 90703, (US)

Law, Patrick, 3709 Watseka Avenue, Apt. 306, Los Angeles, California 90034, (US)

File 47:Gale Group Magazine DB(TM) 1959-2003/May 15
(c) 2003 The Gale group
File 141:Readers Guide 1983-2003/Apr
(c) 2003 The HW Wilson Co
File 149:TGG Health&Wellness DB(SM) 1976-2003/May W2
(c) 2003 The Gale Group
File 482:Newsweek 2000-2003/May 16
(c) 2003 Newsweek, Inc.
File 484:Periodical Abs Plustext 1986-2003/May W2
(c) 2003 ProQuest
File 623:Business Week 1985-2003/May 16
(c) 2003 The McGraw-Hill Companies Inc
File 646:Consumer Reports 1982-2003/May
(c) 2003 Consumer Union
?ds

Set	Items	Description
S1	147788	VISUAL?() (IMPAIRED? OR DISABILITY? OR DISABL?) OR BLIND? OR (LEGAL? OR FUNCTIONAL?) () BLIND?
S2	377190	FINANCIAL() SERVICE? OR HOME() BANK? OR ATM OR AUTOMATIC() TE- LLER() MACHINE? OR BANK? ? OR BANKING?
S3	3505	(SCREEN() READ?) () (DEVICE? OR APPARATUS? OR SOFTWARE) OR SC- REEN() ACCESS() SOFTWARE? OR HOME() PAGE() READER? OR LYNX? OR TE- XT() (READABLE? OR READABILIT?)
S4	601	(BRAILLE? OR SPEECH?) (3N) (CONVERSION? OR CONVERT?)
S5	282	S1(5N)S2
S6	0	S5(S)S3
S7	0	S5(S)S4
S8	33	S1(5N)S3
S9	18	S8 NOT PY>2000
S10	15	RD (unique items)
S11	21	S1(5N)S4
S12	20	S11 NOT S10
S13	17	S12 NOT PY>2000
S14	11	RD (unique items)

10/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

05869782 SUPPLIER NUMBER: 64262444 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Locking Out the Disabled. (Technology Information)
HEIM, JUDY
PC World, 18, 9, 181
Sept, 2000
ISSN: 0737-8939 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3195 LINE COUNT: 00251

... a contributing editor for PC World.
The Talking Web HOW IT WORKS--AND DOESN'T
~~BLIND~~ WEB SURFERS rely on **screen reader software** or talking
Web browsers (such as IBM's Home Page Reader, used in these examples...

10/3,K/2 (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

05248010 SUPPLIER NUMBER: 21167580 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Successful web pages: what are they and do they exist?
D'Angelo, John; Little, Sherry K.
Information Technology and Libraries, v17, n2, p71(11)
June, 1998
ISSN: 0730-9295 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 8012 LINE COUNT: 00674

... appearance. (139)
* Provide a text-only option for users with text-only browsers such
as **LYNX** or for users who are **visually impaired**, (140) or provide
simple alternative

10/3,K/3 (Item 3 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

04787698 SUPPLIER NUMBER: 19609643 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Most of the Web is unfriendly to the challenged. (handicapped access sites) (Jeff's Internet Adventures) (Brief Article) (Directory)
Frentzen, Jeff
PC Week, v14, n31, p165(1)
July 21, 1997
DOCUMENT TYPE: Brief Article Directory ISSN: 0740-1604 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 646 LINE COUNT: 00056

Wrong. **Visually impaired** readers use **screen - reader software**
to translate Web pages into Braille or use text-to-speech Web browsers.
Usually this...

...a time, horizontally across the page.
Can Web publishers successfully accommodate all readers, including the
blind and **visually impaired** ?
Probably not. **Screen - reader software** does a generally poor job
with HTML-formatted paragraphs that contain several hyperlinks. Will Web...

10/3,K/4 (Item 4 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

03701520 SUPPLIER NUMBER: 11848064 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Software helps blind PC users gain access to CD-ROMs. (Brief Article)
Online, v16, n2, p84(1)
March, 1992
CODEN: ONLID DOCUMENT TYPE: Brief Article ISSN: 0146-5422
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 291 LINE COUNT: 00022

TEXT:

...make it easier for blind persons to use CD-ROM technology. Using speech synthesizers and **screen access software**, blind persons can read the contents of CD-ROM discs without using a sighted reader. If...

10/3,K/5 (Item 5 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

03081587 SUPPLIER NUMBER: 06272244 (USE FORMAT 7 OR 9 FOR FULL TEXT)
New on the market. (First Looks)
Muchmore, Michael
PC Magazine, v7, n7, p51(2)
April 12, 1988
ISSN: 0888-8507 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1178 LINE COUNT: 00091

IBM **Screen Reader Software** and Keypad
Enable the **Blind** to Hear Text from PS/2s IBM Corp. is offering a system that lets blind...

10/3,K/6 (Item 1 from file: 141)
DIALOG(R)File 141:Readers Guide
(c) 2003 The HW Wilson Co. All rts. reserv.

04295688 H.W. WILSON RECORD NUMBER: BRGA00045688 (USE FORMAT 7 FOR FULLTEXT)
Locking out the disabled.
Heim, Judy.
PC World v. 18 no9 (Sept. 2000) p. 181-5
WORD COUNT: 3373

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... the Internet really is for everyone."
The Talking Web: How It Works--And Doesn't
Blind Web surfers rely on **screen reader software** or talking Web browsers (such as IBM's Home Page Reader, used in these examples...

10/3,K/7 (Item 1 from file: 149)
DIALOG(R)File 149:TGG Health&Wellness DB(SM)
(c) 2003 The Gale Group. All rts. reserv.

01900520 SUPPLIER NUMBER: 58252923 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Edapta, Inc. Helping Guide Disabled Into Cyberspace. (Brief Article)
Siedsma, Andrea
San Diego Business Journal, 20, 48, 12
Nov 29,
1999
DOCUMENT TYPE: Brief Article PUBLICATION FORMAT: Magazine/Journal ISSN:
8750-6890 LANGUAGE: English RECORD TYPE: Fulltext TARGET AUDIENCE: Trade
WORD COUNT: 1306 LINE COUNT: 00111

... AOL is violating the Americans with Disabilities Act because its service is not compatible with **screen access software** programs for the **blind**.

AOL officials, who have expressed their dismay over the claim, have said the next version...

10/3,K/8 (Item 2 from file: 149)

DIALOG(R)File 149:TGG Health&Wellness DB(SM)

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01897373 SUPPLIER NUMBER: 61424235 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Assessment: Internet Service for Functional Assessment and Accommodation Matching.

McDaniel, Randall

The Journal of Rehabilitation, 66, 1, 43

Jan-March,

2000

PUBLICATION FORMAT: Magazine/Journal; Refereed ISSN: 0022-4154

LANGUAGE: English RECORD TYPE: Fulltext TARGET AUDIENCE: Professional

WORD COUNT: 1746 LINE COUNT: 00150

... program is mostly text based, it is accessible and user-friendly for persons who are **blind** utilizing **screen reader software**. In addition, some of the beta testers that participate(t in development of the system...

10/3,K/9 (Item 3 from file: 149)

DIALOG(R)File 149:TGG Health&Wellness DB(SM)

(c) 2003 The Gale Group. All rts. reserv.

01674394 SUPPLIER NUMBER: 19059108 (USE FORMAT 7 OR 9 FOR FULL TEXT)

I hear, you see: adaptive CD-ROM for disabled users.(includes related article on the Trace Research & Development Center's universal design principles)

Lazzaro, Joseph J.

EMedia Professional, v10, n2, p52(7)

Feb,

1997

PUBLICATION FORMAT: Magazine/Journal ISSN: 1090-946X LANGUAGE: English

RECORD TYPE: Fulltext; Abstract TARGET AUDIENCE: Trade

WORD COUNT: 4045 LINE COUNT: 00349

... Off-Screen model which keeps a running tally of everything written to the screen, allowing **screen - reader software** programs used by the **blind** to accurately read what is on the video display.

ActiveX Accessibility also includes hooks for...

10/3,K/10 (Item 1 from file: 484)

DIALOG(R)File 484:Periodical Abs Plustext

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05522078 SUPPLIER NUMBER: 115722532 (USE FORMAT 7 OR 9 FOR FULLTEXT)

What have we done? TILT's impact on our instruction program

Fowler, Clara S; Dupuis, Elizabeth A

Reference Services Review (RSRV), v28 n4, p343-348

2000

ISSN: 0090-7324 JOURNAL CODE: RSRV

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3556

TEXT:

... based interactions. This version also met our accessibility standards for the tutorial to function using **screen reading software** utilized by some of our **visually - impaired** students.

Removing some of the technological obstacles students could encounter with Web-based learning was...

10/3,K/11 (Item 2 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2003 ProQuest. All rts. reserv.

04717330 SUPPLIER NUMBER: 52053244 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Designing a web-based desktop that's easy to navigate
Rogers, Eric
Computers in Libraries (ICLB), v20 n4, p34-40, p.6
Apr 2000
ISSN: 1041-7915 JOURNAL CODE: ICLB
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2660

TEXT:

... need assistance in seeing and reading the screen, as well as customers who are completely **blind** and require **screen - reading software**.

The initial interface customers encounter is very similar to the default version, except that all...

10/3,K/12 (Item 3 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2003 ProQuest. All rts. reserv.

04645415 SUPPLIER NUMBER: 48731710 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Creating an online community--and a market--for the disabled
Kahn, Jeremy
Fortune (FOR), v141 n3, p188, p.1
Feb 7, 2000
ISSN: 0015-8259 JOURNAL CODE: FOR
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 409

TEXT:

... and provides text equivalents for all images and other nontext screen elements, something critical to **blind** people who rely on **screen - reading software** to surf the Web.

The Website is already making money, according to Fields; the next...

10/3,K/13 (Item 4 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2003 ProQuest. All rts. reserv.

03993461 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Blind programmers
Alexander, Steve
Computerworld (COW), v32 n44, p86-87, p.2
Nov 2, 1998
ISSN: 0010-4841 JOURNAL CODE: COW
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1766

TEXT:

... the newer PC and client/server worlds, Chong says.

That door was partially reopened for **blind** programmers when **screen** - **reader** **software** was adapted to convert some, but not all, Windows graphical interfaces into screen-readable text...

10/3,K/14 (Item 5 from file: 484)

DIALOG(R)File 484:Periodical Abs Plustext

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03918772 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Successful Web pages: What are they and do they exist?

D Angelo, John; Little, Sherry K

Information Technology & Libraries (JLA), v17 n2, p71-81, p.11

Jun 1998

ISSN: 0730-9295 JOURNAL CODE: JLA

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 7233

TEXT:

... appearance.139

Provide a text-only option for users with text-only browsers such as **Lynx** or for users who are **visually impaired**,140 or provide simple alternative text for the graphics they cannot view.141,142,143...

10/3,K/15 (Item 6 from file: 484)

DIALOG(R)File 484:Periodical Abs Plustext

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03692843 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Reaching the whole community through the Internet

Holmes, Susan F

Computers in Libraries (ICLB), v18 n4, p51-55, p.5

Apr 1998

ISSN: 1041-7915 JOURNAL CODE: ICLB

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3449

TEXT:

... with disabilities: Access by the entire community is an issue that TRFN takes very seriously. **Visually impaired** users find our pages **Lynx** -friendly because we require all TRFN-hosted Web sites to keep the text-based user...

14/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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05813489 SUPPLIER NUMBER: 62685145 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Motor City hosts top science fair winners. (International Science and Engineering Fair in Detroit, Michigan) (Brief Article)
Travis, J.
Science News, 157, 21, 327
May 20, 2000
DOCUMENT TYPE: Brief Article ISSN: 0036-8423 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 734 LINE COUNT: 00060

... E. Pechter and William H. Pechter of Vero Beach, Fla., will describe their software that **converts** text to **speech** for the **blind**. The fair's judges, totaling more than 1,000, said they were "astounded" and "humbled..."

14/3,K/2 (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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04718489 SUPPLIER NUMBER: 19217213 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Brain research and folk psychology.
Hinrichs, Bruce
The Humanist, v57, n2, p26(6)
March-April, 1997
ISSN: 0018-7399 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 5075 LINE COUNT: 00410

... and "neural networks" that perform intelligent, humanlike operations. For example, programs have been created to **convert** print to **speech** for the **blind**, simulate the reading disorder dyslexia, construct an artificial human eye, create a simulated man on...

14/3,K/3 (Item 3 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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04304849 SUPPLIER NUMBER: 17096190 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The World Wide Web and emerging Internet resource discovery standards for scholarly literature. (Networked Scholarly Publishing)
Weibel, Stuart L.
Library Trends, v43, n4, p627(18)
Spring, 1995
ISSN: 0024-2594 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 6511 LINE COUNT: 00545

... a manner that they can be parsed by software that can read tables for the **visually impaired** (or **convert** them to **braille**). Currently, HTML supports neither objective, though work is underway to substantially improve the table model...

14/3,K/4 (Item 4 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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04152551 SUPPLIER NUMBER: 16168993 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Disabling myths about enabling technologies. (Bank of America VP Susan Portugal discusses supporting handicapped workers) (Real Problems, Real Solutions) (Column)

Portugal, Susan
PC World, v12, n11, p47(2)
Nov, 1994
DOCUMENT TYPE: Column ISSN: 0737-8939 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 937 LINE COUNT: 00081

...ABSTRACT: devices have become available and the cost has dropped dramatically. The \$6,000 Versabrillette terminal **converts** electronic text into **braille** for **blind** workers and permits them to touch-type on a standard keyboard. Such products tend to...

14/3,K/5 (Item 5 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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03975025 SUPPLIER NUMBER: 14554780 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Happy talk. (device translates sign language into speech)
Discover, v14, n12, p34(2)
Dec, 1993
ISSN: 0274-7529 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 511 LINE COUNT: 00039

... this is only half the communication. Why not make a device that recognizes the deaf- **blind** person's finger spelling and **converts** it directly to **speech** ?"

Kramer's glove senses the finger motions of its wearer with 22 sensors embedded in...

14/3,K/6 (Item 6 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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03823293 SUPPLIER NUMBER: 14047668
Software helps the blind to read. (Xerox Imaging Systems) (Product Announcement)
Design News, v49, n11, p44(2)
June 7, 1993
DOCUMENT TYPE: Product Announcement ISSN: 0011-9407 LANGUAGE:
ENGLISH RECORD TYPE: ABSTRACT

ABSTRACT: Xerox Imaging Systems developed a new software program that can **convert** written text into **speech** and enable the **blind** to read printed words. The Reading AdvantEdge works with a text scanner and voice-synthesis
...

14/3,K/7 (Item 7 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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02803073 SUPPLIER NUMBER: 04262549 (USE FORMAT 7 OR 9 FOR FULL TEXT)
High-tech help for the handicapped.
Farley, Dixie
FDA Consumer, v20, p8(5)
June, 1986
ISSN: 0362-1332 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2500 LINE COUNT: 00200

... and a separate, compact control panel that's connected by cable to the scanner. By **converting** print to synthesized **speech**, the machine enables a **blind** person to "read" nearly any typed or printed material.

To use the machine, the person...

14/3,K/8 (Item 8 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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02581271 SUPPLIER NUMBER: 03414105 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A visit to 'The Computer Museum.'
Office Administration and Automation, v45, p70(3)
Sept, 1984
ISSN: 0745-4325 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1367 LINE COUNT: 00110

... Napier in 1617) to the Pascaline, the first mechanical calculator.
The Kurzweil Reading Machine, which **converts** printed material to **speech**
for the **visually impaired**, and Shakey-the-Robot, the first mobile robot
with artificial intelligence, also and to the...

14/3,K/9 (Item 1 from file: 141)
DIALOG(R)File 141:Readers Guide
(c) 2003 The HW Wilson Co. All rts. reserv.

04285700 H.W. WILSON RECORD NUMBER: BRGA00035700 (USE FORMAT 7 FOR FULLTEXT)
Motor city hosts top science fair winners.
Travis, John.
Science News v. 157 no21 (May 20 2000) p. 327
WORD COUNT: 758

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... E. Pechter and William H. Pechter of Vero Beach, Fla., will
describe their software that **converts** text to **speech** for the **blind**.
The fair's judges, totaling more than 1,000, said they were
"astounded" and "humbled..."

14/3,K/10 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
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04201134 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Pattern recognition
Dern, Daniel P
Computerworld (COW), v33 n3, p71, p.1
Jan 18, 1999
ISSN: 0010-4841 JOURNAL CODE: COW
DOCUMENT TYPE: Interview
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 792

...ABSTRACT: past 2 decades, Ray Kurzweil has created computer companies
whose products read text to the **blind**, **convert speech** to text and
create music without using musical instruments. In an interview, he
discusses his...

TEXT:

... past two decades, Ray Kurzweil has created computer companies whose
products read text to the **blind**, **convert speech** to text and create
music without using musical instruments. His new book, The Age of...

14/3,K/11 (Item 2 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext

00270860

Newsline: New Software Helps Blind Convert Text to Braille

Kinnaman, Daniel E.

Classroom Computer Learning (GCCL), v9 n3, p10-11, p.2

Nov 1988

ISSN: 0746-4223 JOURNAL CODE: GCCL

DOCUMENT TYPE: News

LANGUAGE: English RECORD TYPE: Abstract

LENGTH: Short (1-9 col inches)

Newsline: New Software Helps Blind Convert Text to Braille